

USPTO Customer No. 25280

Case # 5407

AMENDED CLAIMS

1. (Currently amended) A process for improving the absorption characteristics of a fabric, the fabric being comprised of continuous conjugate filaments ~~that are longitudinally separable into elementary filaments and~~ having at least a first elementary filament material and a second elementary filament material, said first elementary filaments having been mechanically separated along their lengths from said second elementary filaments, wherein said first filament material is a polyester that is substantially resistant to acid degradation and said second filament material is a polyamide that is susceptible to acid degradation, said process comprising the steps of:
 - (a) subjecting the fabric to an acid-containing solution for a first determinate time and then rinsing, wherein the acid-containing solution degrades at least a portion of said second filament material; and
 - (b) subjecting the fabric to a basic solution for a second determinate time and then rinsing, wherein the basic solution makes said first filament material more hydrophilic.
2. (Original) The process of Claim 1 wherein the acid-containing solution contains an acid that is selected from the group consisting of hydrochloric acid, sulfuric acid, nitric acid, and phosphoric acid.
3. (Original) The process of Claim 1 wherein the acid-containing solution contains formic acid.
4. (Original) The process of Claim 1 wherein the acid-containing solution contains a sulfonic acid is selected from the group consisting of benzene sulfonic acid, naphthalene sulfonic acid, orthotoluene sulfonic acid, metatoluene sulfonic acid, paratoluene sulfonic acids, and alkylated aromatic sulfonic acids wherein the alkyl group may be a straight chain or branched chain and may contain from one to about 20 carbon atoms.

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5. (Original) The process of Claim 4 wherein the sulfonic acid is paratoluene sulfonic acid.
6. (Original) The process of Claim 5 wherein the concentration of paratoluene sulfonic acid in the acidic solution is from about 0.25 % to about 3.0%, based on the weight of the bath.
7. (Original) The process of Claim 6 wherein the concentration of paratoluene sulfonic acid in the acidic solution is from about 1.0% to about 3.0%, based on the weight of the bath.
8. (Original) The process of Claim 7 wherein the concentration of paratoluene sulfonic acid in the acidic solution is about 2.0%, based on the weight of the bath.
9. (Original) The process of Claim 4 wherein the first determinate time is from about 30 minutes to about 120 minutes.
10. (Original) The process of Claim 9 wherein the first determinate time is about 90 minutes.
11. (Original) The process of Claim 1 wherein the basic solution contains a base selected from the group of the hydroxides of alkali metals, the hydroxides of alkaline earth metals, and amines.
12. (Original) The process of Claim 11 wherein the basic comprises potassium hydroxide.
13. (Original) The process of Claim 11 wherein the basic comprises sodium hydroxide.
14. (Original) The process of Claim 13 wherein the concentration of sodium hydroxide in the basic solution is from about 0.025% to about 0.10%, based on the weight of the bath.

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15. (Original) The process of Claim 14 wherein the concentration of sodium hydroxide in the basic solution is about 0.050%, based on the weight of the bath.
16. (Original) The process of Claim 1 wherein the second determinate time is about 30 minutes.
17. (Original) The process of Claim 1 wherein the fabric is further subjected to application of a hand-building agent after step (b).
18. (Original) The process of Claim 1 wherein the fabric is further subjected to application of a soil-release agent after step (b).
19. (Original) The process of Claim 1 wherein the fabric is subjected to high pressure hydroentanglement before step (a).
20. (Currently amended) The process of Claim 1 wherein said ~~first filament material that is substantially resistant to acid degradation is a~~ polyester-like material is selected from the group consisting of polyethylene terephthalate (PET), polybutylene terephthalate (PBT), polytrimethylene terephthalate (PTT), and polylactic acid (PLA).
21. (Currently amended) The process of Claim 20 wherein said ~~first filament~~ polyester material is polyethylene terephthalate (PET).
22. (Currently amended) The process of Claim 1 wherein said ~~second filament material that is susceptible to acid degradation is a~~ polyamide material is selected from the group consisting of nylon 6, nylon 6 6, nylon 1 1, and nylon 610.
23. (Currently amended) The process of Claim 22 wherein said ~~second filament~~ polyamide material is nylon 6.
24. (Currently amended) The process of Claim 1 wherein said ~~the~~ the fabric has a nonwoven construction.

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Claims 25 – 46. (Cancelled)